

REACTIONS AT 10 Td

$O_2^1\Delta$	$O_2 + e^- \rightarrow$	$O_2(v=1) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(v=2) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(v=3) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(0.98) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(1.0) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(1.63) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(4.8) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(6.1) + e^-$
	$O_2 + e^- \rightarrow$	$O_2(8.4) + e^-$
	$O_2 + e^- \rightarrow$	$O + O^-$
	$O_2 + e^- \rightarrow$	$O + O(+) + e^-$
	$O_2 + e^- \rightarrow$	$O_2 + e^- + e^-$
	ELASTIC + ROTATIONAL	

FIG-1

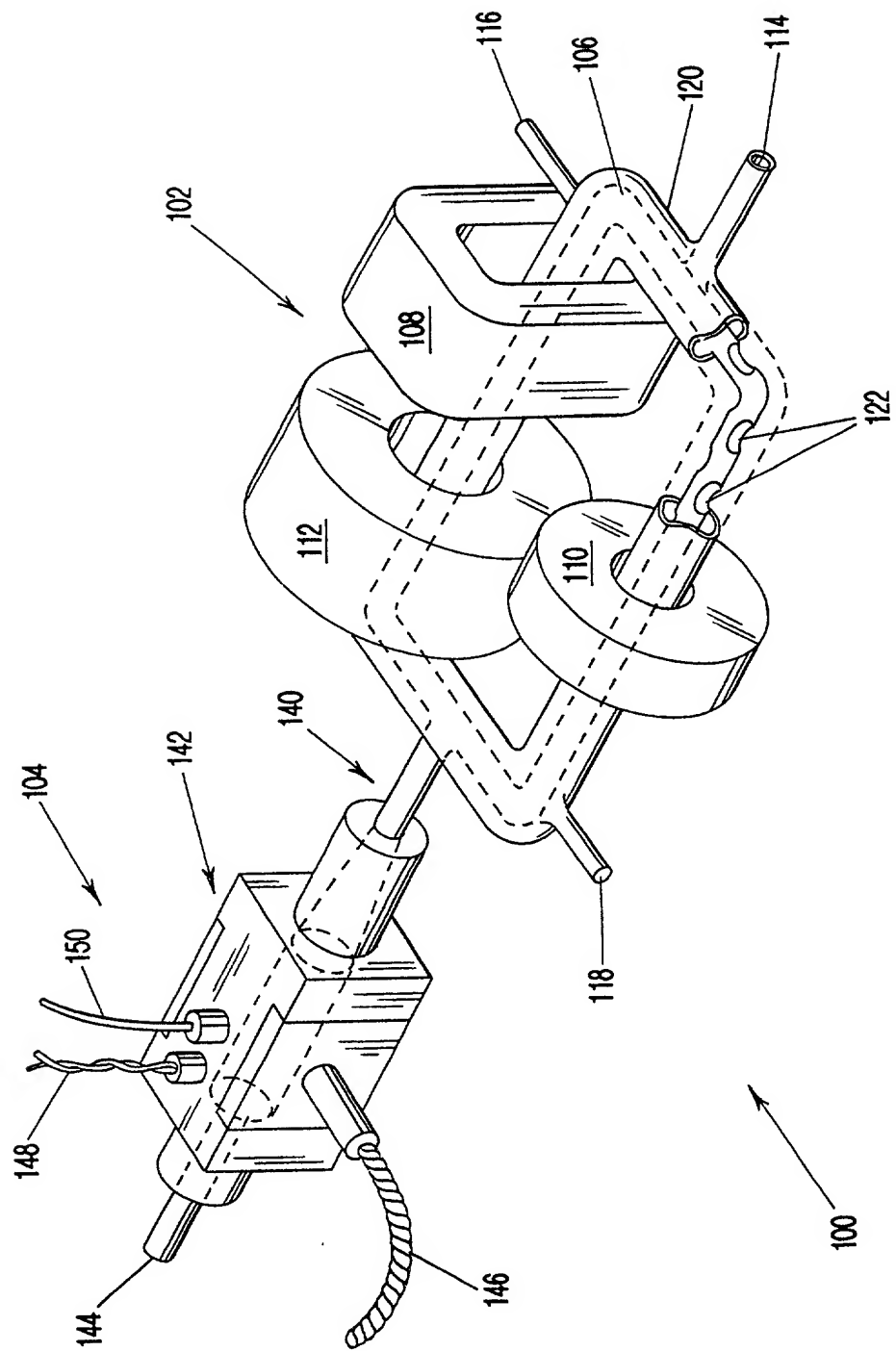


FIG-2

2024-09-09 09:00:00

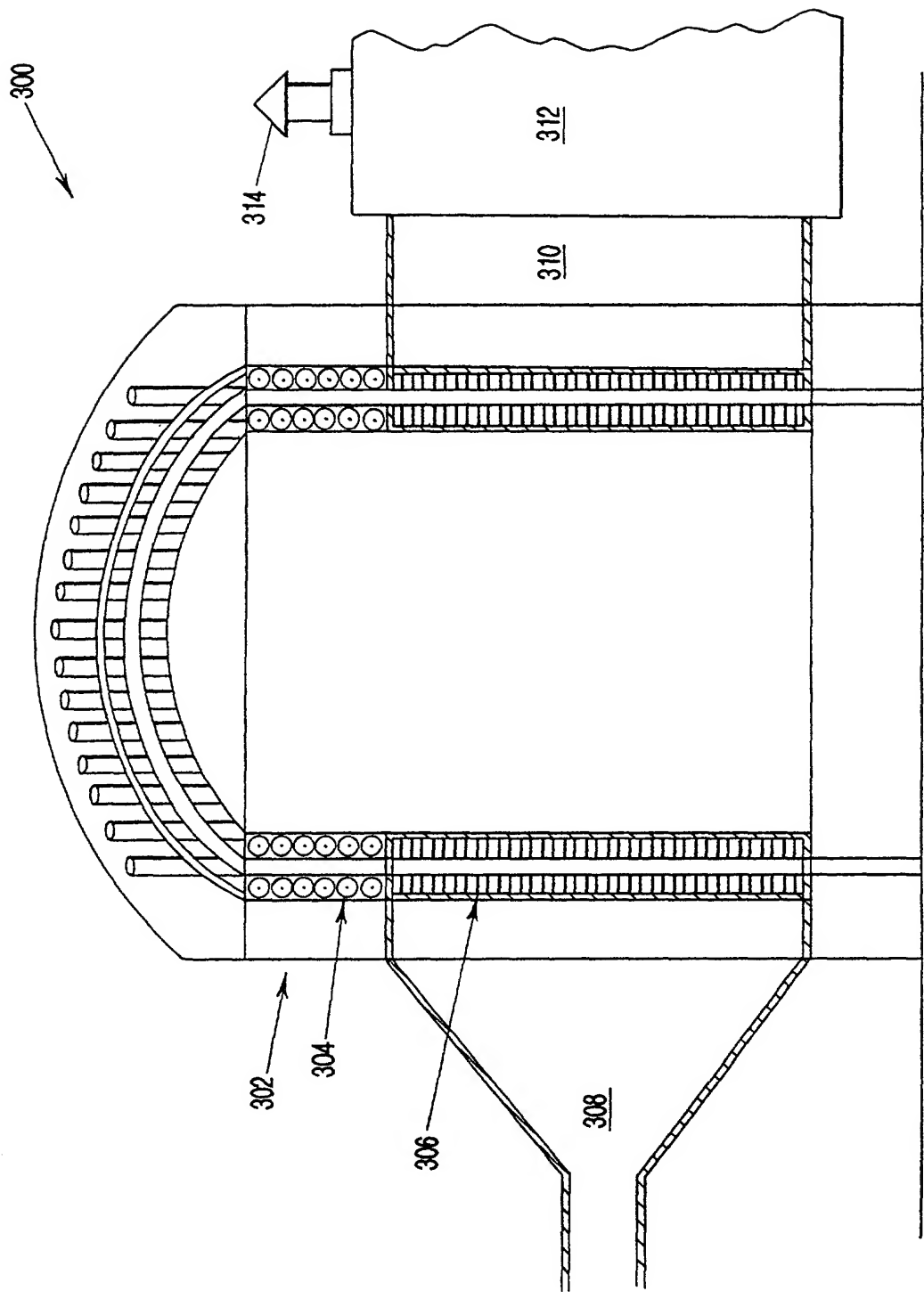


FIG-4

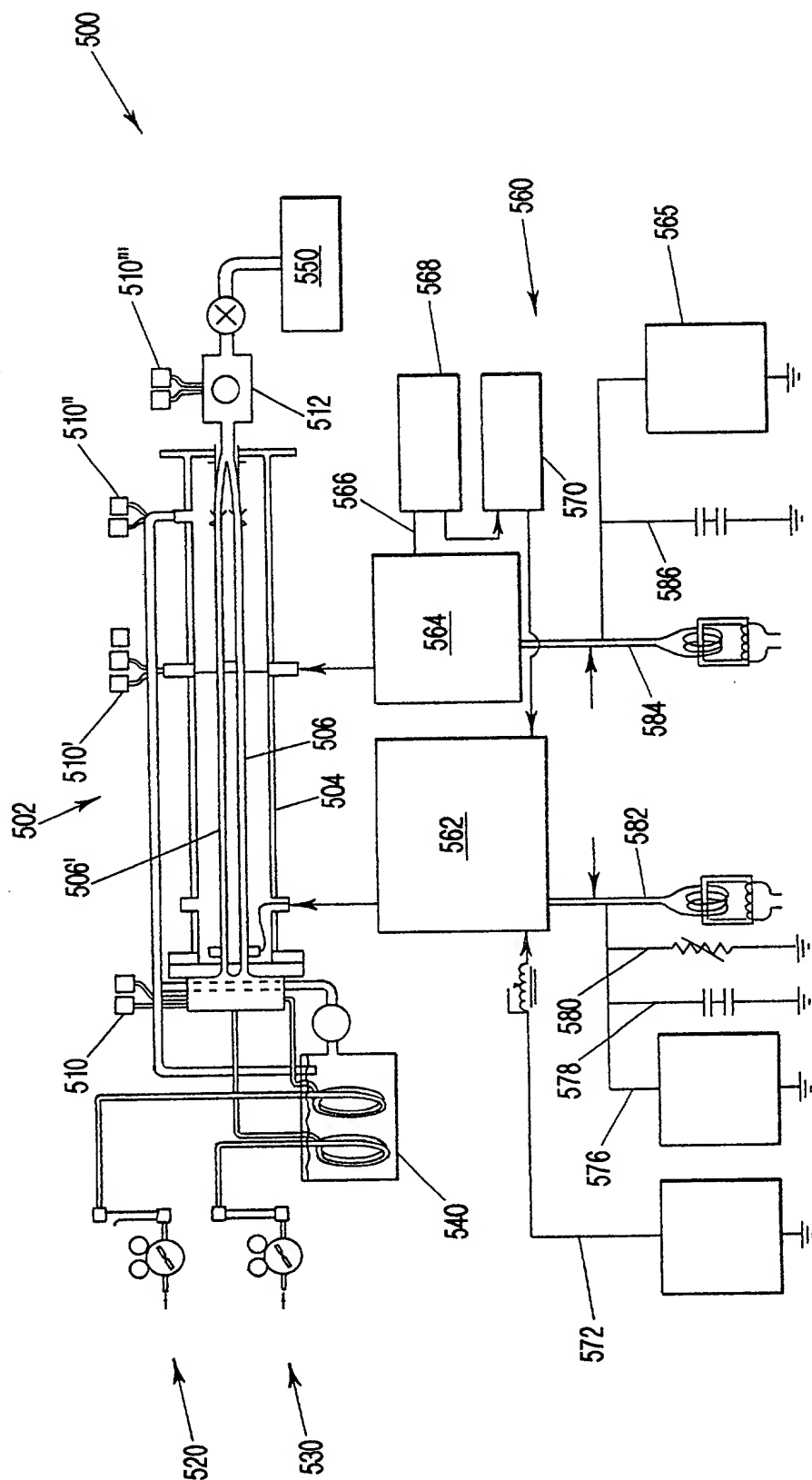
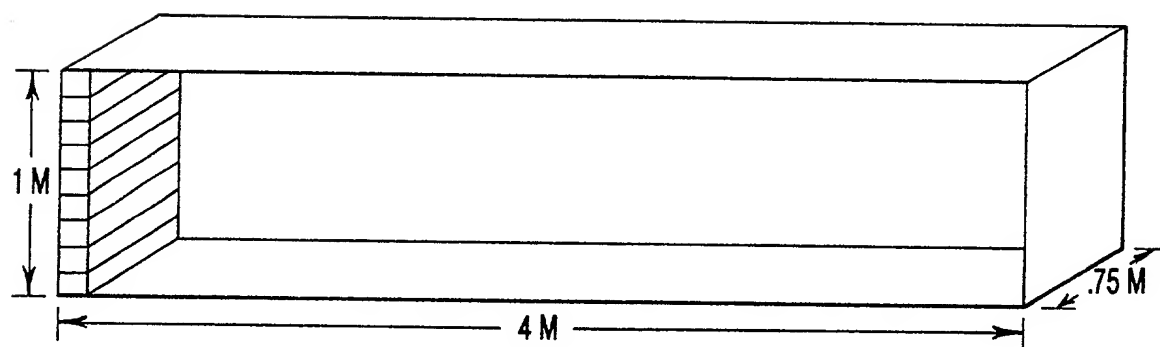
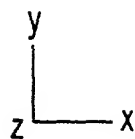
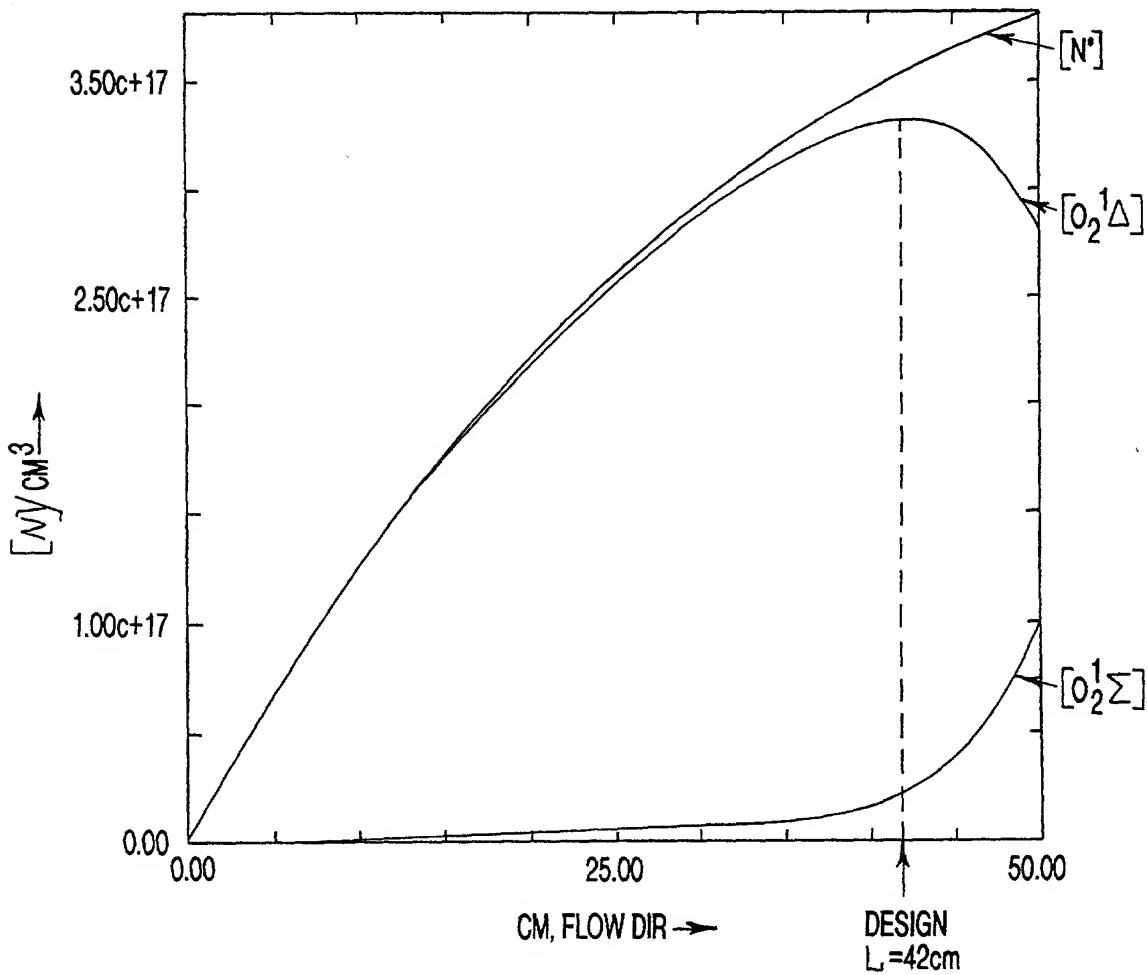


FIG-5





FLUTED 6480 SECTION LINEAR GENERATOR - $T_{\text{gas}} = 485^\circ\text{K}$,
 $V = 213\text{M/sec (700FT/sec)}$; $P = 75\text{ Torr O}_2 + 75\text{ Torr He}$; $\oint P = 20\text{ Torr}$
 $(E/N)_{\text{PUMP}} = 10\text{Td, CONSTANT}$.



0.00 < x < 50.00
 0.00 < y < 3.81c+17

fract $\text{O}_2^1\Delta / N_{\text{TOTAL}} = 0.222$
 fract $\text{O}_2^1\Delta / \text{O}_2 \text{ GND} = 0.290$
 fract $\text{O}_2^1\Sigma / N_{\text{TOTAL}} = 0.014$

FIG-7

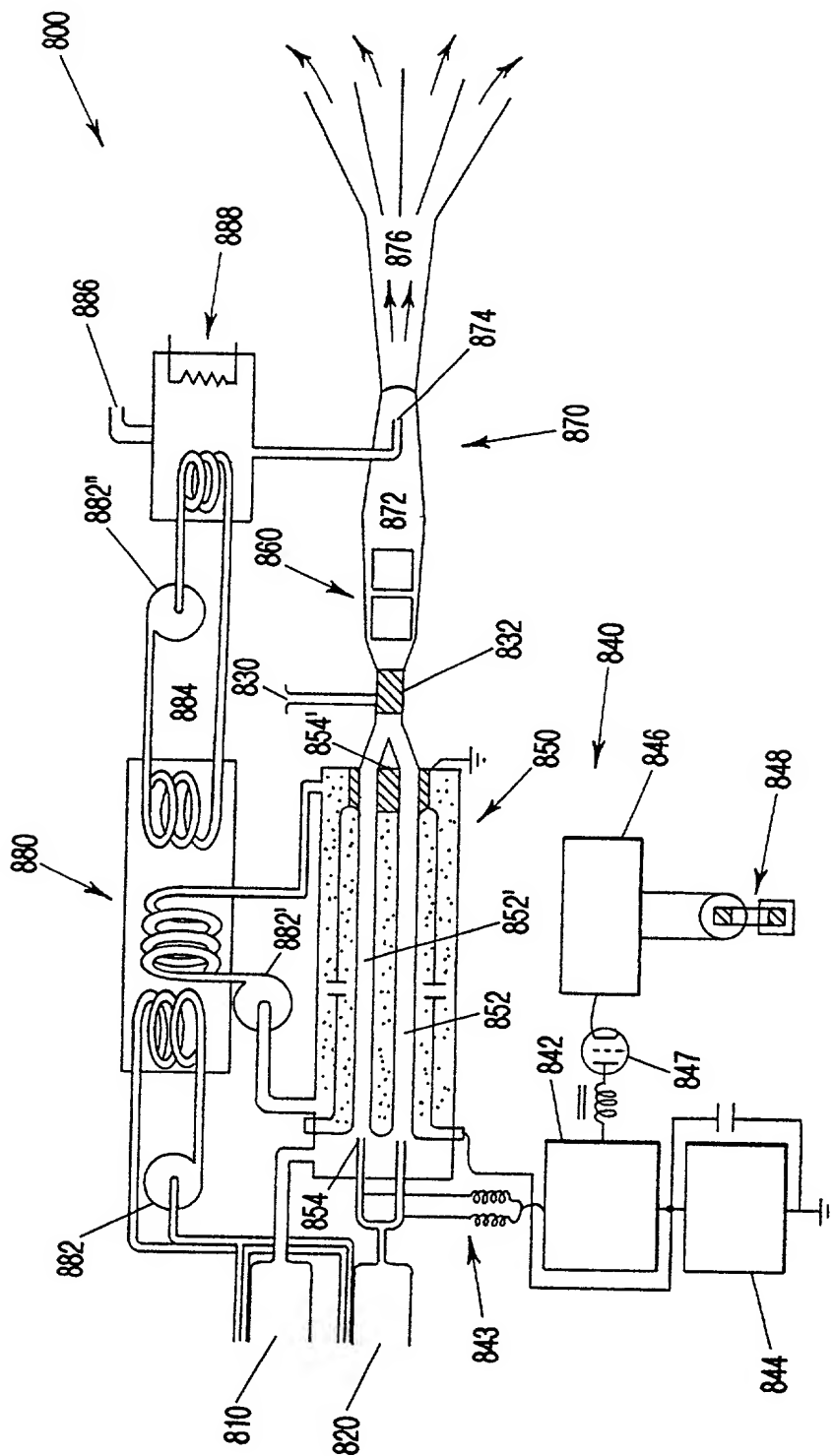


FIG-8a

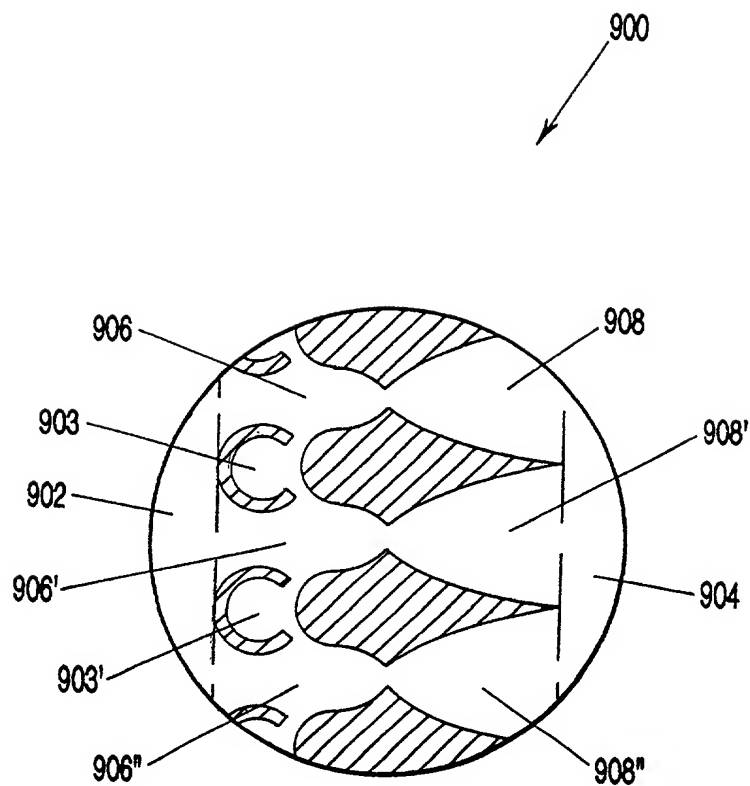


FIG-8b

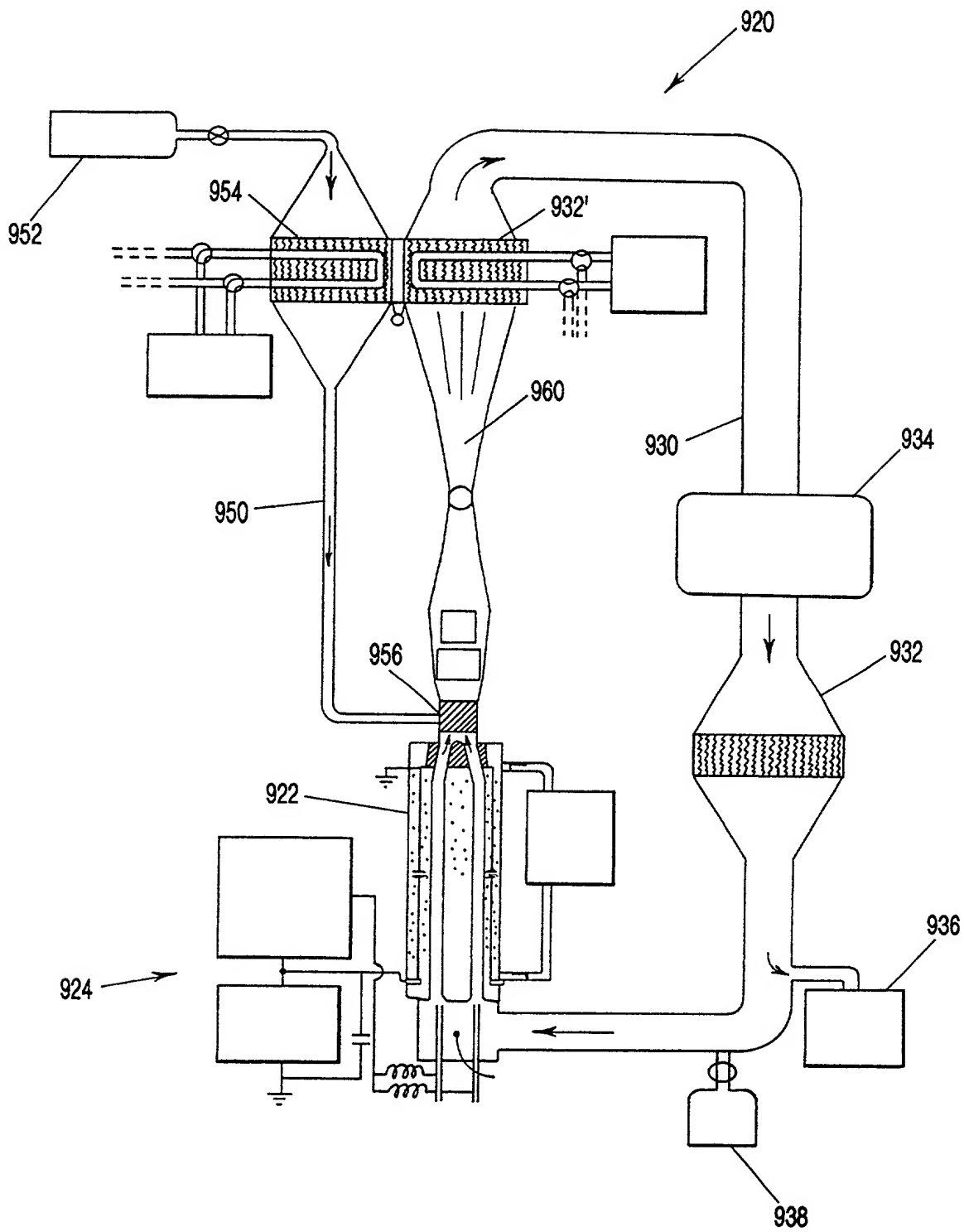


FIG-9

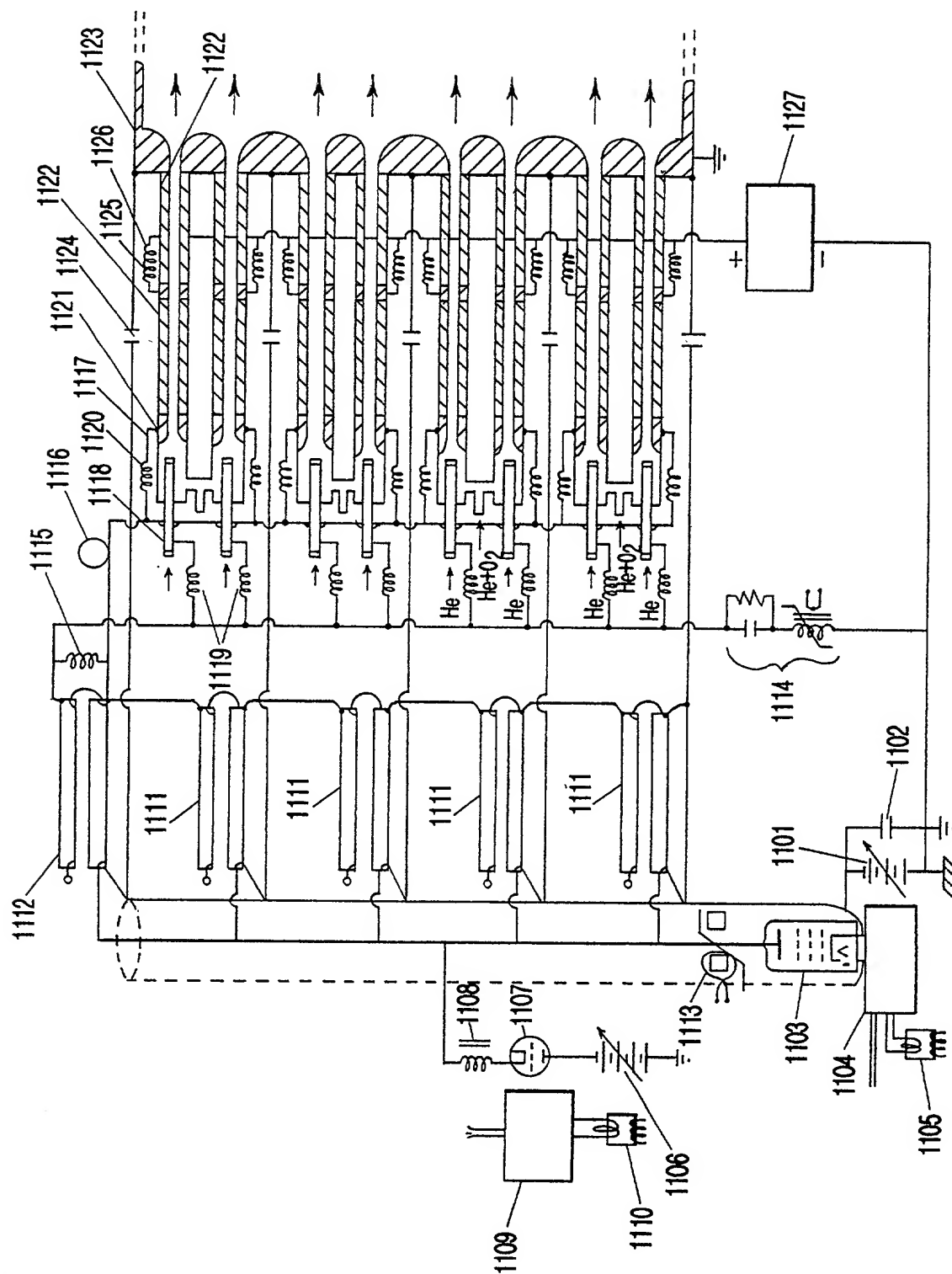


FIG-10

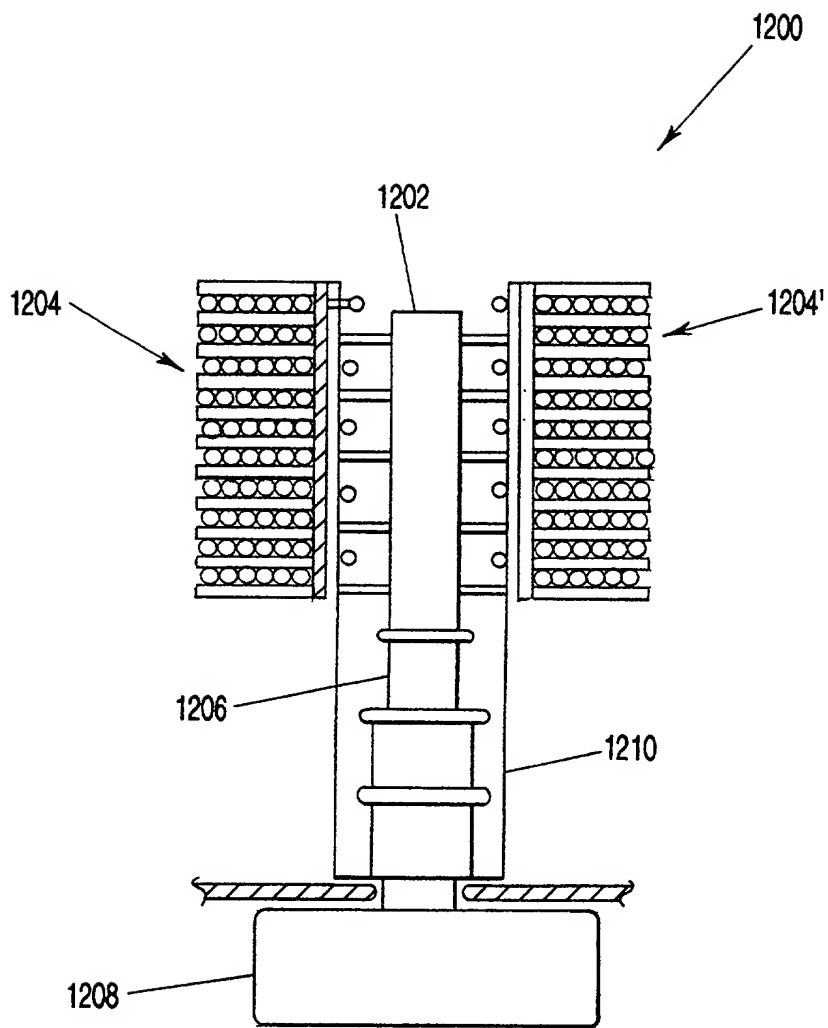


FIG-11

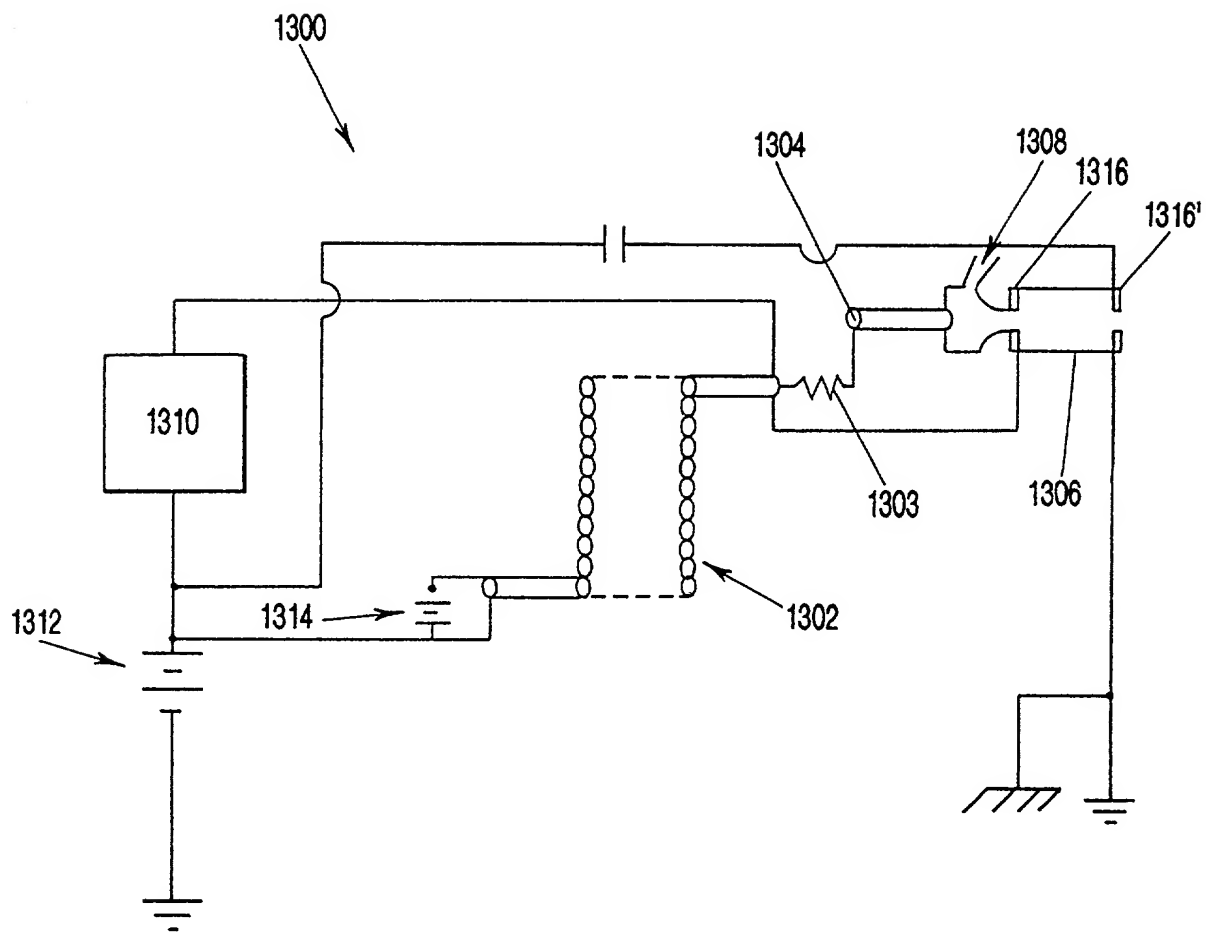


FIG-12

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$ $\frac{1}{8}$ $\frac{1}{9}$ $\frac{1}{10}$ $\frac{1}{11}$ $\frac{1}{12}$ $\frac{1}{13}$ $\frac{1}{14}$ $\frac{1}{15}$ $\frac{1}{16}$ $\frac{1}{17}$ $\frac{1}{18}$ $\frac{1}{19}$ $\frac{1}{20}$ $\frac{1}{21}$ $\frac{1}{22}$ $\frac{1}{23}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{26}$ $\frac{1}{27}$ $\frac{1}{28}$ $\frac{1}{29}$ $\frac{1}{30}$ $\frac{1}{31}$ $\frac{1}{32}$ $\frac{1}{33}$ $\frac{1}{34}$ $\frac{1}{35}$ $\frac{1}{36}$ $\frac{1}{37}$ $\frac{1}{38}$ $\frac{1}{39}$ $\frac{1}{40}$ $\frac{1}{41}$ $\frac{1}{42}$ $\frac{1}{43}$ $\frac{1}{44}$ $\frac{1}{45}$ $\frac{1}{46}$ $\frac{1}{47}$ $\frac{1}{48}$ $\frac{1}{49}$ $\frac{1}{50}$ $\frac{1}{51}$ $\frac{1}{52}$ $\frac{1}{53}$ $\frac{1}{54}$ $\frac{1}{55}$ $\frac{1}{56}$ $\frac{1}{57}$ $\frac{1}{58}$ $\frac{1}{59}$ $\frac{1}{60}$ $\frac{1}{61}$ $\frac{1}{62}$ $\frac{1}{63}$ $\frac{1}{64}$ $\frac{1}{65}$ $\frac{1}{66}$ $\frac{1}{67}$ $\frac{1}{68}$ $\frac{1}{69}$ $\frac{1}{70}$ $\frac{1}{71}$ $\frac{1}{72}$ $\frac{1}{73}$ $\frac{1}{74}$ $\frac{1}{75}$ $\frac{1}{76}$ $\frac{1}{77}$ $\frac{1}{78}$ $\frac{1}{79}$ $\frac{1}{80}$ $\frac{1}{81}$ $\frac{1}{82}$ $\frac{1}{83}$ $\frac{1}{84}$ $\frac{1}{85}$ $\frac{1}{86}$ $\frac{1}{87}$ $\frac{1}{88}$ $\frac{1}{89}$ $\frac{1}{90}$ $\frac{1}{91}$ $\frac{1}{92}$ $\frac{1}{93}$ $\frac{1}{94}$ $\frac{1}{95}$ $\frac{1}{96}$ $\frac{1}{97}$ $\frac{1}{98}$ $\frac{1}{99}$ $\frac{1}{100}$

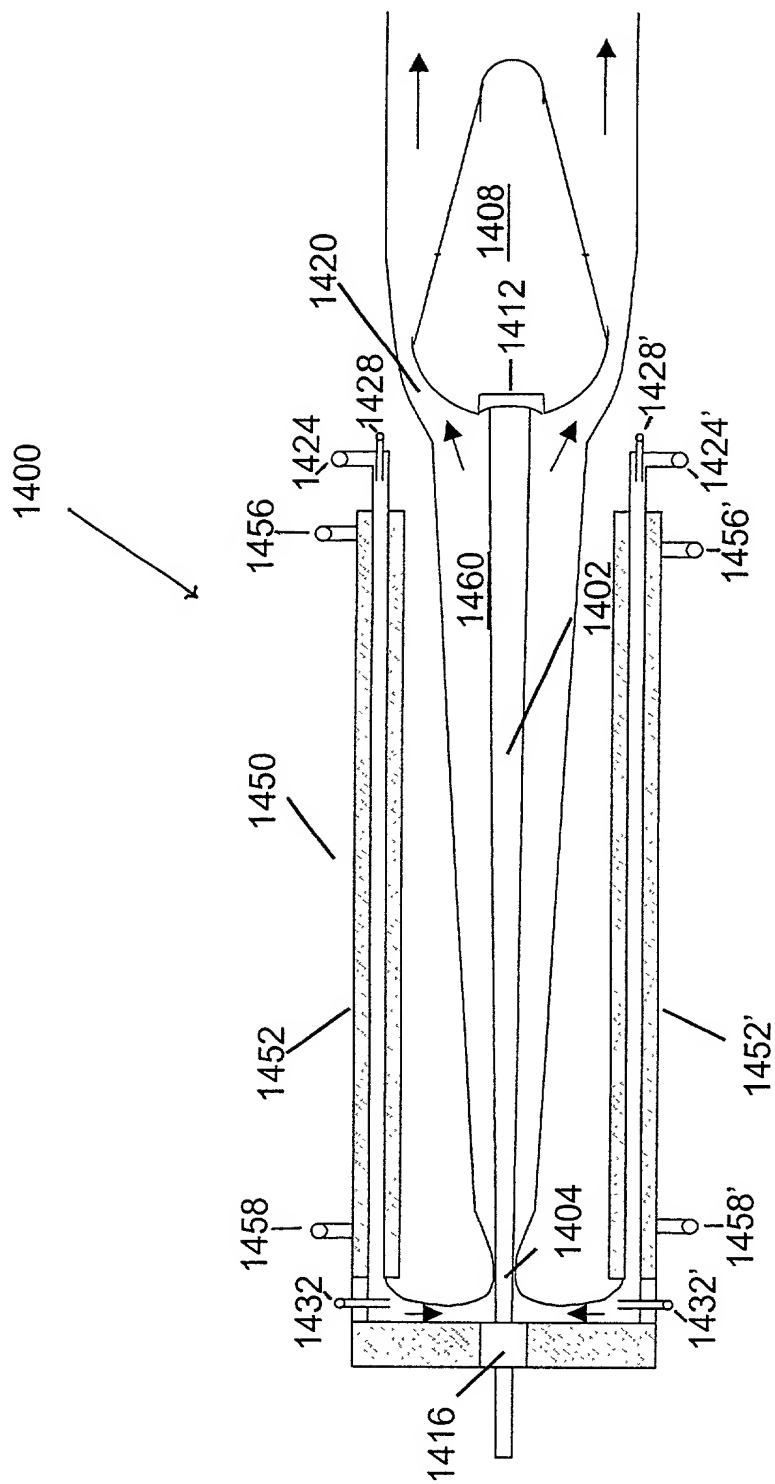


Figure 13

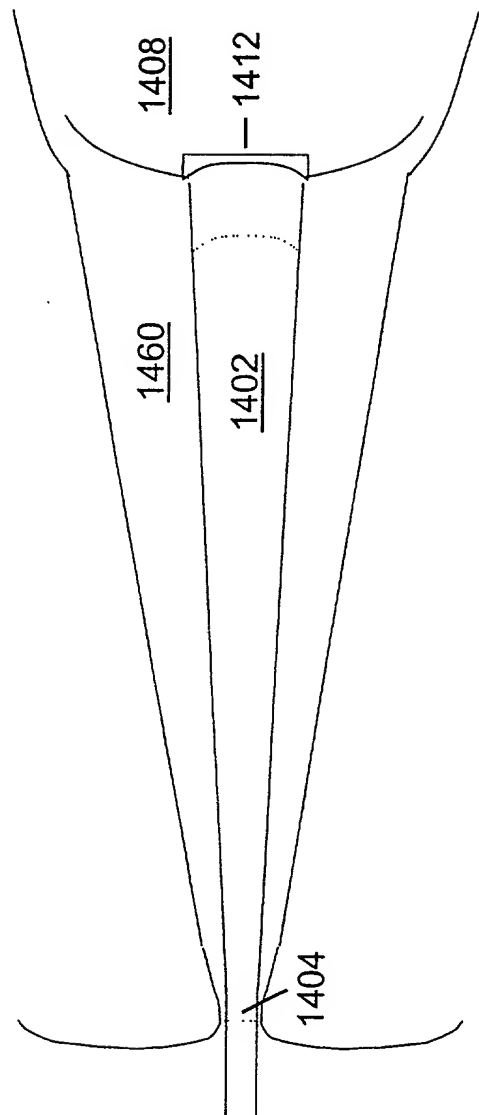


Figure 14